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CONSOLIDATED TRANSLATION SURVEY

Number 104

For August 1966

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CONSOLIDATED TRANSLATION SURVEY

FOR AUGUST 1966

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CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly by the Foreign Documents Division, Office of Central Reference, CIA, from lists received through the cooperation of US government agencies and includes translations prepared by such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and, when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

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ACIC - Aeronautical Chart and Information Center
(see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AF

Department of Air Force
Assistant Chief of Staff, Intelligence
ATTN: AFCIN-3D
Washington 25, D. C.

AFCRL Res Lib

Air Force Cambridge Research Laboratories
Research Library
Office of Aerospace Research
United States Air Force
Laurence G. Hanscom Field
Bedford, Massachusetts
ATTN: CRMXLR

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington, D.C. 20005

AI

Advance Information
Frederick A. Praeger, Publishers
111 Fourth Avenue
New York, N.Y. 10003

AIP

American Institute of Physics
335 East 45th Street
New York, New York 10017

Amer Math Soc

American Mathematical Society
190 Hope Street
Providence 6, Rhode Island

AMS - Army Map Service - (see ACSI)

ANL - Argonne National Laboratory, Illinois
(see AEC)

APL - Applied Physics Laboratory (see Navy)

ATD - Aerospace Technology Division (see Library
of Congress)

BISI

British Iron and Steel Industry Translation Service
The Iron and Steel Institute
4 Grosvenor Gardens
London, S.W. 1, England

CB

Consultants Bureau Enterprises, Incorporated
227 West 17th Street
New York, New York 10011

CFSTI

Clearinghouse for Federal Scientific and
Technical Information (Formerly Office of
Technical Services)
Port Royal and Braddock Roads
Springfield, Virginia 22151

CTT

Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DDC RSIC - Defense Documentation Center, Redstone
Scientific Information Center
(see CFSTI)

DIA

Defense Intelligence Agency
Washington, D. C. 20301

Elsevier Publishing Co.

Spuistraat 110-112
Amsterdam, The Netherlands

FP

The Faraday Press, Incorporated
84 Fifth Avenue
New York, New York 10011

FTD - Foreign Technology Division (see AF)

HB

Henry Bratcher Technical Translations
P.O. Box 157
Altadena, California 91001

IEEE

Institute of Electrical and Electronics Engineers
275 Madison Avenue
New York, New York 10016

IPST

Israel Program for Scientific Translation
14 Shammai Street
P.O. Box 7145
Jerusalem, Israel

JHU/APL - The Johns Hopkins University/Applied Physics
Laboratory (see Navy)

JPRS

U. S. Department of Commerce
Clearinghouse for Federal Scientific
and Technical Information
Joint Publications Research Service
Building Tempo E,
East Adams Drive, 4th & 6th Streets, SW
Washington, D.C. 20443

Maritime Admin

Maritime Administration
Office Services
GAO, 5th and G Streets, NW
Washington, D.C.

NASA

National Aeronautics and Space Administration
1512 H Street, NW
Washington, D.C. 20546

Navy

Department of Navy
Office of Naval Intelligence
Washington 25, D.C.

NLL

National Lending Library
for Science & Technology
Boston Spa, Yorkshire, England

NRL - Naval Research Laboratories (see Navy)

NSJ - (see AEC)

NSTIC

Naval Sci and Tech Intell Ctr

Department of the Navy
CNO/ONI
922 STIC
Pentagon

ONI - Office of Naval Intelligence (see Navy)

ORNL - Oak Ridge National Laboratory (see AEC)

OT

Ministry of Aviation
TIL.1(a),
First Avenue House,
High Holborn
London, W.C. 1, England

PP

Pergamon Press
122 East 55th Street
New York, New York 10022

Primary Sources

Primary Sources
11 Bleecker Street
New York, New York 10012

RAE - (see TIL, Ministry of Aviation)

RSIC - (see DDC/RSIC)

RTS - (see OTS)

TC

Trans-Chem
Chemical Translation Service
1216 Oakdale, S. E.
Knoxville, Tennessee 37914

UCRL

University of California
Lawrence Radiation Laboratory
Livermore, California
(see AEC)

USSR

Economic

On Wider Introduction of Computing Machines into Construction, by K. S. Nekrasov, 7 pp.
RUSSIAN, per, Byulleten' Stroitel'noy Tekhniki, No 4, Apr 1966, pp. 27-29.
JPRS 36390

Tasks of the Builders in the New Five-Year Plan, 11 pp.
RUSSIAN, per, Byulleten' Stroitel'noy Tekhniki, Vol 28, No 4, Apr 1966, pp. 1-6.
JPRS 36216

Results of Operation of New Economic System in 43 Enterprises, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 19, May 1966, p. 19.
JPRS 36384

Reconstruction of Existing Plants Is More Advantageous Than New Construction, by B. Gusev, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 21, May 1966, p. 32.
JPRS 36384

The Tasks of Workers in Enterprises and Organizations of Chemical and Petroleum Machine Building for the Fulfillment of the Decisions of the XXIII Congress CPSU, by P. Likhodiy, 8 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 22, June 1966, pp. 21-22.
JPRS 36350

The Five-Year Plan of Nonferrous Metallurgy, by P. Lomako, 9 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 23, June 1966, pp. 6-7.
JPRS 36425

Industrial Methods for Repair of Equipment, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 23, Jun 1966, p. 18.
JPRS 36384

USSR
Economic (Contd)

Progress in the Utilization of Reserves At the Chelyabinsk Metallurgical Plant, by Ye. Makarov, 7 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 23, June 1966, p. 23.
JPRS 36608

Organization of Traffic, by N. N. Ullas, 8 pp.
RUSSIAN, per, Gorodskoye Khozyaystvo Moskv, No 3, Mar 1965, pp 33-36.
DIA LN 184-66

Moscow's Circumferential Highways, by V. L. Shafran, 5 pp.
RUSSIAN, per, Gorodskoye Khozyaystvo Moskv, No 3, 1965, pp 36-40.
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The Stages of Development of the Moscow Telephone by N. M. Pominov, 2 pp.
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DIA LN 184-66

Need for Development of Scientific Principles for the Administration of Socialist Industry, by D. Gvishiani, 5 pp.
RUSSIAN, np, Izvestiya, 7 June 1966, p. 3.
JPRS 36416

Planned Increases in National Economy of the Moldavian SSR during the Next Five-Year Plan, by A. Diorditsa, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 24, June 1966, p. 4.
JPRS 36416

All-Union Scientific-Technical Conference "Problems of Scientific Organization of the Administration of Socialist Industry", by D. Gvishiani, 11 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 24, June 1966, pp. 6-7.
JPRS 36416

New Prices in Machine Building, by A. Koshuta, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 24, Jun 1966, p. 16.
JPRS 36322

USSR
Economic (Contd)

Improve Quality of Construction Planning,
by V. Chernyavskiy, 7 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, No 4,
Apr 1966, pp. 39-43.
JPRS 36351

Meeting of the Economic Aktiv of the Ministry
of Power and Electrification USSR, 14 pp.
RUSSIAN, per, Elektricheskiye Stantsii, No 6,
1966, pp. 2-7.
JPRS 36451

The Moscow City Economy in 1966, by
V. F. Promyslov, 108 pp.
RUSSIAN, per, Gorodskoye Khozyaystvo Moskv,
No 1, Jan 1966, pp 2-38.
DIA LN 186-66

New Technology in Municipal Economy 1959-1965,
by N. P. Plotnikov, 9 pp.
RUSSIAN, per, Gorodskoye Khozyaystvo
Moskv, No 4, April 1966, pp 10-14.
DIA LN 371-66

Passenger Transportation During the Seven
Year Period, by A. N. Trofimov, 12 pp.
RUSSIAN, per, Gorodskoye Khozyaystvo
Moskv, No 4, April 1966, pp 14-20.
DIA LN 371-66

Preservation and Modernization of Living
Area in Moscow, by V. N. Kutukov, A. P. Kolodey,
10 pp.
RUSSIAN, per, Gorodskoye Khozyaystvo Moskv,
No 4, April 1966, pp 20-24.
DIA LN 371-66

Need for Greater Scientific Efficiency Dis-
cussed, by G. Popov, 6 pp.
RUSSIAN, np, Izvestiya, 27 May 1966, p. 3.
JPRS 36369

On the Depleting Fish Resources of the Azov
Sea, by Vladimir Formenko, 6 pp.
RUSSIAN, np, Literaturnaya gazeta, 17 May
1966, p. 2.
JPRS 36565

Development of Armenia's Chemical Industry,
by K. Rukhikyan, 5 pp.
RUSSIAN, np, Kommunist, 29 May 1966, p. 2.
JPRS 36509

USSR
Economic (Contd)

Effects of the New Five-Year Plan on Industry
in Chelyabinsk, by Anatoliy Mednikov, 14 pp.
RUSSIAN, np, Literaturnaya Rossiya, 15 Apr
1966, pp. 5-6.
JPRS 36384

Problems in Reducing Costs of Automatic Equip-
ment, by V. V. Andreyev, 7 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizat-
siya Proizvodstva, No 4, 1966, pp. 33-34.
JPRS 36353

Intersectorial Balance of the Social Product, by
M. R. Eydel'man. 375 pp. NY-13385
RUSSIAN, bk, Mezhotraslevoy Balans Obshchest-
vennoy Produkta, Moscow, 1965,
*JPRS

The Soviet Union in the Economics of the
Modern World, by A. Alekseyev and Yu. Shirayev,
14 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhdunarodn-
yye Otnosheniya, No 3, 1966, pp. 19-31.
JPRS 36329

Idea of Existence of Variety of Social Sys-
tems Assailed in Soviet Publication, 11 pp.
RUSSIAN, bk, Mirovoy Revolyutsionnyy Protsess
i Sovremennyy Sotsial-Reformizm, 1965, pp.
109-122.
JPRS 36514

Economic Achievements in Kazakhstan, 11 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakh-
stana, No 3, 1966, pp. 3-7.
JPRS 36384

Economic Science in Service to the National
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stana, No 3, 1966, pp. 17-21.
JPRS 36384

Problems of Normsetting for Power Resources,
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RUSSIAN, per, Narodnoye Khozyaystvo Kazakh-
stana, No 3, 1966, pp. 40-42.
JPRS 36274

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Application of Cybernetics in the Mechanization and Automation of Economics Control Work, by N. Kovalev, 7 pp.
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JPRS 36391

Refractory Materials Industry Maps Growth in Line with Directives of Party Congress, 5 pp.
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JPRS 36608

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JPRS 36608

Step-Up Urged in Soviet Refractory Powder Output, by L. A. Tseytlin, 6 pp.
RUSSIAN, per, Ogneupory, No 5, 1966, pp. 8-11.
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Improving the Branch Structure of Industry during the New Five-Year Plan, by F. Klotsvog, 8 pp.
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Realignment of the Timber Industry to Meet Increased Demand, Reduce Waste, and Improve Efficiency, by V. Glotov, 10 pp.
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JPRS 36526

Cybernetic Methods Applied to Production Management at Latvian Plants, by Yu. Koginov, 5 pp.
RUSSIAN, np, Pravda, 4 May 1966, p. 3.
JPRS 36327

Rostovskaya Oblast Party Committee Efforts to Improve Work of Scientific Institutions, by A. Navosov and V. Reut, 8 pp.
RUSSIAN, np, Pravda, 25 May 1966, pp. 2-3.
JPRS 36369

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The Role of Engineering Psychology in Modern Instrument Making, by A. I. Gubinskiy, G. I. Kavalero, A. A. Krylov and B. F. Lomov, 6 pp.
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A Device for the Automatic Processing of Chromatograms, by O. S. Akhmerov, I. A. Ibragimov, L. V. Ilyasov and N. G. Farzane, 5 pp.
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JPRS 36562

Critical Path Planning and Improving Production Management, by A. A. Murzayev and Ye. V. Kharitonov, 5 pp.
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Advantages of Using Reinforced Concrete in Construction, by V. Mikhaylov, 6 pp.
RUSSIAN, per, Promyshlennoye Stroitel'stvo i Inzhenernyye Sooruzheniya, No 2, Mar-Apr 1966, pp. 1-3.
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Concrete Values of Capital Investment Return, by B. Lisitsyn, 5 pp.
RUSSIAN, np, Rabochaya Gazeta, 28 Apr 1966, p. 2.
JPRS 36390

The Development of Bus Transportation in the Current Five-Year Plan, by V. Glushchenko, 5 pp.
RUSSIAN, np, Rabochaya Gazeta, 27 May 1966, p. 2.
JPRS 36224

A Critical Need for the Production of Fodder Grass Seeds, by V. Lyushinskiy, 5 pp.
RUSSIAN, np, Sel'skaya zhizn', 9 May 1966, p. 2.
JPRS 36432

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Northwest RSFR, 16 pp.
RUSSIAN, rpt, Severo-Zapad RSFSR, 1964,
pp 184-191; 271; 355; 371; 399; 432-433;
455; 485; 487; 502; 521-524; 542; 549;
551-554; 565; 568-569; 582; 598-599;
600; 611; 628; 638; and 612.
ACSI J-0174
ID 2204032666

The Use of Modern Computers in the Garment
Industry, by A. S. Ruzhentsev and D. Ya.
Sinelnikov, 6 pp.
RUSSIAN, per, Shveytnaya promyshlennost',
No 2, Mar-Apr 1966, pp. 25-28.
JPRS 36565

Irrigation Designing is Defective in
Pyatigorsk, by B. Baygakov, 5 pp.
RUSSIAN, np, Sovetskaya Rossiya, No 112,
15 May 1966, p. 2.
JPRS 36432

Trade Institute Conference Weighs Computer
Use in Retail Operations, 7 pp.
RUSSIAN, per, Sovetskaya Torgovlya, No 3,
Mar 1966, pp. 58-61.
JPRS 36273

Use of Computers in Retail Trade Management
Described, by L. Bulychev and A. Mikheyev,
11 pp.
RUSSIAN, per, Sovetskaya Torgovlya, No 4, Apr
1966, pp. 12-17.
JPRS 36273

Decree of the 3rd Plenum of the Central Com-
mittee of Trade Union of Construction and
Construction Materials Industry Workers,
10 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 13 May
1966, p. 2.
JPRS 36351

Construction and Road Machinebuilding in
1965-1966, 6 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye
Mashiny, No 3, 1966, pp. 2-4.
JPRS 36351

The Utilization of Scientific Facilities
for the Critical Path Method (CPM), by M.
Makrusanin and A. Kashirskiy, 11 pp.
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Apr 1966, pp. 11-13.
JPRS 36310

USSR
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Implementation of the Directives of the
23rd Congress - Light Industry in the
New Five-Year Plan, by N. N. Tarasov, 7 pp.
RUSSIAN, per, Tekstil'naya Promishlennost',
No 4, April 1966, pp 1-4.
ACSI J-0390
ID 2204039466

Instructions for Signalling on the Railroads
of the USSR, by M. N. Khatskelevich 68 pp.
RUSSIAN, nps, Transport, 1965.
DIA LN 293-66

Experience Gained in Use of Motor
Vehicles for Repair of Transmission
Lines, by M. N. Solovov. 10 pp.
RUSSIAN, per, Transportnoye Stroitel'stvo
March 1966, pp 10;
ACSI J-0130
ID 2204031966

Transport Crossing in Three Levels,
by A. D. Potapov, et al. 10 pp.
RUSSIAN, per, Transportnoye
Stroitel'stvo, March 1966, pp 11-14.
ACSI J-0130
ID 2204031966

Some Figures and Facts of Scientific and
Technical Collaboration of Member Nations of
CEMA, by T. Ordukhanova, 7 pp.
RUSSIAN, per, Vestnik Statistiki, No 4, Apr
1966, pp. 45-50.
JPRS 36620

Excellent Service is the Foremost Duty of
Communications Workers, by Ye. S. Medvedev,
N. M. Lyubavin, 9 pp.
RUSSIAN, per, Vestnik Svyazi, No 3, 1966.
JPRS 36144

A Method of Determining the Complexity of the
Work of Long Distance Switchboard Operators,
by A. U. Troyanker, 5 pp.
RUSSIAN, per, Vestnik Svyazi, No 3, 1966.
JPRS 36144

The Planning and Calculation of the Profit Index
Should be Regulated, by A. M. Malakhiyev, K. P.
Cherivanenko, 6 pp.
RUSSIAN, per, Vestnik Svyazi, No 3, 1966.
JPRS 36144

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To Proceed Still Faster on the Road of
Technical Progress, 7 pp.
RUSSIAN, per, Vestnik Svyazi, No 3, 1966.
JPRS 36144

The Tenth Anniversary of Tashkent Electrotechnical
Institute of Communications, by M. I. Astakhov,
5 pp.
RUSSIAN, per, Vestnik Svyazi, No 3, 1966.
JPRS 36144

A Thorough Economic Knowledge for the Future
Communications Specialists, 5 pp.
RUSSIAN, per, Vestnik Svyazi, No 3, 1966
JPRS 36144

When Attention is Devoted to the Economics,
by S. G. Volkov, L. Ya. Yakovlev, 11 pp.
RUSSIAN, per, Vestnik Svyazi, No 3, 1966.
JPRS 36144

To Achieve the Economic Goals of the 1966 Plan
and to Raise the Profitableness of the Communica-
tions Industry, by V. M. Konyukhova, 8 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

The Automation of the Cathode Protection of the
Underground Communication Cables from Corrosion,
by S. S. Bilenko, E. A. Kapustin, 11 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

The Braced Support Masts, by A. A. Voevodin,
13 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

The Capital Assets of the City Telephone
Exchanges and Their Utilization, by M. G. Karmazov,
7 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

The Facsimile Apparatuses "Aragvi" Must Be Put
Into Use On A Wider Scale, by Ye. L. Kalyuskiy,
V. P. Leontovich, 7 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

USSR
Economic (Contd)

An Important Document on the Socialist State
Production Enterprises, by N. I. Bakhgorskiy,
9 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

Latest Communication Equipment, 5 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

A Long-Distance Coin-Operated Telephone, by
V. S. Isakov, N. V. Pevtsov, 9 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

Telegraph Service to be Raised to the Level of
the New Goals, by L. A. Gusev, 7 pp.
RUSSIAN, per, Vestnik Svyazi, No 4, 1966.
JPRS 36652

Roads Built with Soviet Aid, by M. Beloshevich,
7 pp.
RUSSIAN, per, Vneshnaya Torgovlya, No 3, Mar
1966, pp. 8-11.
JPRS 36329

Information about the Export of Transport
Services, by A. Roytbrud, 5 pp.
RUSSIAN, np, Vodnyy Transport, 26 May 1966,
p. 2.
JPRS 36224

Railway Transport in Soviet Russia, in 1965.
14 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport,
No 3, 1966, pp 68-71.
DIA 298-66

The Waterways of the USSR, by Igor Twerskoj,
4 pp.
GERMAN, per, Binnenschiffahrts-Nachrichten,
No 5, 5 Feb 1966, pp 90-92.
DIA LN 219-66

USSR
Economic (Contd)

Common and Distinguishing Features of the Basic Problems of Technical Cybernetics, by O. G. Ivakhnenko, 21 pp.
UKRAINIAN, per, Avtomatyka, No 2, 1966, pp. 43-56.
JPRS 36527

Best Wishes to the Soviet People in Their New 5-Year Plan (1966-1970), by Hai Binh, 6 pp.
VIETNAMESE, per, Hoc Tap, No 5, 1966, pp. 81-85.
JPRS 36211

Political

Peaceful Coexistence Remains Goal of USSR, by Nikolay Vladimirov, 5 pp.
RUSSIAN, rpt, Domestic Service in Russian, 27 May 1966.
JPRS 36418

Tadzhikistan Organ Stresses CPSU Spirit of Internationalism, by V. Khovrin, 7 pp.
RUSSIAN, np, Kommunist Tadzhikistana, 26 May 1966, pp. 2-3.
JPRS 36514

Changes Introduced into the By-Laws of the Communist Party of the Soviet Union by the 23rd Party Congress, by Col V. Yakushkin, 12 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 10, May 1966, pp. 7-15.
JPRS 36343

The Leninist Course of the Foreign Policy of the CPSU, by V. Zagladin, 13 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 9, May 1966, pp. 12-20.
JPRS 36373

The Basic Aims of Soviet Foreign Policy, by Maj. Gen. K. Bochkarev, et al, 7 pp.
RUSSIAN, bk, Programma KPSS o zashchite sotsialisticheskogo otechestva, pp. 50-57.
JPRS 36233

USSR
Political (Contd)

Soviet Note Condemns West German Revanchism, 12 pp.
RUSSIAN, np, TASS, 18 May 1966.
JPRS 36418

The Story of Mikhail Tukhachevskiy, by Leontiy Rakovskiy, 119 pp.
RUSSIAN, per, Neva, No 4, 1966, pp. 18-118.
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- USSR -

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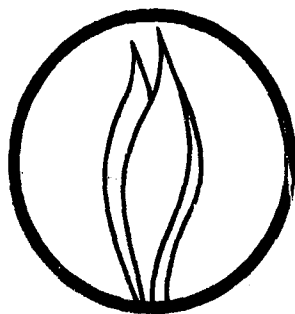
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RUSSIAN ABBREVIATIONS IN TEXT

AN SSSR.....	Academy of Sciences, USSR.
Arm SSR.....	Armenian SSR.
CC CPSU.....	Central Committee, Communist Party, Soviet Union.
DAN.....	Proceedings of the Academy of Sciences.
Gintsvetmet.....	State Institute of Non-Ferrous Metals.
Giprosvetmet.....	State Institute for the Design and Planning of Non-Ferrous Metals Industry Establishments.
Giredmet.....	State Rare Metals Scientific Research Institute.
Gosplan.....	State Planning Committee of the Council of Ministers, USSR.
GOST.....	All-Union Standard.
IL.....	Foreign Literature Publishing House.
Kaz SSR.....	Kazakh SSR.
M.....	Moscow.
Mekhanobr.....	Scientific Research Institute for the Mechanical Concentration of Minerals.
Metallurgizdat.....	State Scientific and Technical Publishing House of Literature on Ferrous and Non-Ferrous Metallurgy.
NIIP.....	People's Commissariat of Heavy Industry.
NTO.....	Scientific and Technical Society.
SNEK.....	Council of the National Economy.
TsIN TsM.....	Central Institute for Information on Non-Ferrous Metals.
VAMI.....	All-Union Aluminum and Magnesium Institute.

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SOME PROBLEMS OF THE ELECTRON THEORY OF METALS*

III. KINETIC PROPERTIES OF ELECTRONS IN METALS

I. M. LIFSHITZ and M. I. KAGANOV

Usp. Fiz. Nauk 87, 389-469 (November, 1965)

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INTRODUCTION

IN the present (third) part of this survey we consider the kinetic properties of metals mainly at low temperatures. Here the main consideration, as in the second part,^[1] is devoted to those phenomena and properties which are sensitive to the dispersion law for the conduction electrons. The mathematical apparatus used here is the Boltzmann kinetic equation.

In this part we restrict our treatment to static or quasi-static properties. This permits us, as shown in the first paragraph, to use the "gas" approximation, since the Fermi-liquid interaction drops out of the final formulas.

*This paper is the third part of a survey; the first part was published in U.F.N. 69, 419 (1959), and the second part in U.F.N. 78, 411 (1962) [Soviet Phys. Uspekhi 2, 831 (1960) and 5, 878 (1963)].

The majority of kinetic phenomena are extremely sensitive to the nature of the interaction of the conduction electrons with impurities, with phonons, and with one another. In particular, this interaction dictates the temperature behavior of the kinetic coefficients. The survey does not attempt to give a presentation of the wide range of theoretical material available at present concerning this question. Particular attention is devoted to those regularities and properties which are more or less independent of the character of the interaction (cf. Secs. 5-7, 9). At times in this summary we use the τ -approximation, i.e., the integral collision operator is replaced by the operator of multiplication with a phenomenological constant (the relaxation time τ); this is specifically stated in all cases.

In this part of the survey we restrict ourselves to problems concerned with the computation of the co-

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* * *



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

A handwritten signature in dark ink, appearing to read "Sergio N. Alcivar".

Sergio N. Alcivar
Chief, CIA Declassification Center,
Declassification Review and Referral
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

ENCLOSURE I



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num	Box	Fldr	Doc	Doc ID	Document Title	Pub Date	Pages	Decision	Proc Date
AD0482732	78-03109A	56	1	5	100	Consolidated Translation Survey For April 1966	4/1/1966	203	Approved For Release	3/25/2004
AD0485874	78-03109A	56	1	6	101	Consolidated Translation Survey For May 1966	5/1/1966	250	Approved For Release	3/25/2004
AD0486759	78-03109A	56	1	7	102	Consolidated Translation Survey For June 1966	6/1/1966	265	Approved For Release	3/25/2004
AD0488131	78-03109A	56	1	8	103	Consolidated Translation Survey For July 1966	7/1/1966	178	Approved For Release	3/25/2004
AD0800235	78-03109A	57	1	1	104	Consolidated Translation Survey For August 1966	8/1/1966	264	Approved For Release	3/25/2004
AD0801439	78-03109A	57	1	2	105	Consolidated Translation Survey For September 1966	9/1/1966	211	Approved For Release	3/25/2004
AD0803607	78-03109A	57	1	3	106	Consolidated Translation Survey For October 1966	10/1/1966	247	Approved For Release	3/25/2004
AD0804982	78-03109A	57	1	4	107	Consolidated Translation Survey For November 1966	11/1/1966	203	Approved For Release	3/25/2004
AD0806465	78-03109A	57	1	5	108	Consolidated Translation Survey For December 1966	12/1/1966	234	Approved For Release	3/25/2004
AD0808740	78-03109A	57	1	6	109	Consolidated Translation Survey For January 1967	1/1/1967	277	Approved For Release	3/25/2004
AD0811456	78-03109A	57	1	7	110	Consolidated Translation Survey For February 1967	2/1/1967	234	Approved For Release	3/25/2004
AD0813563	78-03109A	57	1	8	111	Consolidated Translation Survey For March 1967	3/1/1967	342	Approved For Release	3/25/2004
AD0814969	78-03109A	57	1	9	112	Consolidated Translation Survey For April 1967	4/1/1967	268	Approved For Release	3/25/2004
AD0816126	78-03109A	58	1	1	113	Consolidated Translation Survey Through 31 May 1967	5/31/1967	210	Approved For Release	3/25/2004
AD0818406	78-03109A	58	1	2	114	Consolidated Translation Survey Through 30 June 1967	6/30/1967	271	Approved For Release	3/25/2004
AD0834366	78-03109A	58	1	3	115	Consolidated Translation Survey Through 31 July 1967	7/31/1967	318	Approved For Release	3/25/2004
AD0820905	78-03109A	58	1	4	116	Consolidated Translation Survey Through 31 August 1967	8/31/1967	308	Approved For Release	3/25/2004
AD0822924	78-03109A	58	1	5	117	Consolidated Translation Survey Through 30 September 1967	9/30/1967	330	Approved For Release	3/25/2004
AD0824515	78-03109A	58	1	6	118	Consolidated Translation Survey Through 31 October 1967	10/31/1967	200	Approved For Release	3/25/2004
AD0824581	78-03109A	58	1	7	119	Consolidated Translation Survey Through 30 November 1967	11/30/1967	194	Approved For Release	3/25/2004
AD0832430	78-03109A	58	1	8	120	Consolidated Translation Survey Through 31 December 1967	12/31/1967	100	Approved For Release	3/25/2004
AD0828154	78-03109A	58	1	9	121	Consolidated Translation Survey Through 31 January 1968	1/31/1968	221	Approved For Release	3/25/2004
AD0829939	78-03109A	59	1	1	122	Consolidated Translation Survey Through 29 February 1968	2/29/1968	246	Approved For Release	3/25/2004